

Message

**From:** Terry, Robert [Terry.Robert@epa.gov]  
**Sent:** 3/2/2016 11:00:22 PM  
**To:** LEE, LILY [LEE.LILY@EPA.GOV]  
**Subject:** RE: Topic for Rad Mtg w/Greenaction

Here's the updated table I promised you.

SPRG (Surfaces) and PRG (Soil & Water) Calculator Results at the  $1 \times 10^{-4}$  Risk Level  
 Calculated 26-Feb-2016

Radionuclide	Surfaces dpm/100 cm <sup>2</sup>		Soil pCi/g		Water pCi/L
	Equipment & Waste	Structures	Construction Worker	Residential	Equipment & Waste
Cesium-137	21201	21201	10.1	4.66	119
Cobalt-60	13165	13165	5.37	3.19	259
Hydrogen-3	--	--	--	--	1370
Plutonium-239	--	--	1360	3.57	25
Radium-226	5505	5505	2.33	0.63	0.044
Strontium-90	541680	541680	998	6.39	46
Thorium-232	--	--	4.72	0.35	2.9
Uranium-235	62160	62160	34	4.75	46

NOTES: <sup>a</sup>The estimates for Surface PRGs are taken from the SPRG Calculator using default values for the 3-D direct external exposure indoor worker scenario. Requirements for building structure surfaces and for equipment & waste surfaces are taken to be the same, as per U.S. NRC Regulatory Guide 1.86 *Termination of Operating Licenses for Nuclear Reactors* dated June 1974 and reviewed December 2011.

<sup>b</sup>The estimates for Soil PRGs are taken from the PRG Calculator using default values for the outdoor worker and residential scenarios.

<sup>c</sup>The estimates for Water PRGs are taken from the PRG Calculator using default values for the residential scenario. Generally, MCLs for drinking water are preferred values for water.

<sup>d</sup>By agreement between the Navy and EPA Region 9 the remediation goal for soil is 1.0 pCi/g.

**From:** LEE, LILY  
**Sent:** Wednesday, March 02, 2016 9:51 AM  
**To:** Terry, Robert <Terry.Robert@epa.gov>  
**Subject:** FW: Topic for Rad Mtg w/Greenaction

I got the attached from Dan Hirsch. For your convenience, I am also including his questions from before below. Thanks!

Lily Lee  
 Cleanup Project Manager  
 Superfund Division  
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**From:** Daniel Hirsch [<mailto:dohirsch@ucsc.edu>]

**Sent:** Friday, February 26, 2016 2:18 PM

**To:** LEE, LILY <[LEE.LILY@EPA.GOV](mailto:LEE.LILY@EPA.GOV)>

**Cc:** [bradley@greenaction.org](mailto:bradley@greenaction.org); Marie Harrison <[marieH@greenaction.org](mailto:marieH@greenaction.org)>; Janice Davis <[jadadavi@ucsc.edu](mailto:jadadavi@ucsc.edu)>; Lucien Martin <[lumamart@ucsc.edu](mailto:lumamart@ucsc.edu)>; Maria Caine <[mcaine@ucsc.edu](mailto:mcaine@ucsc.edu)>; Janie Flores <[jalflore@ucsc.edu](mailto:jalflore@ucsc.edu)>; Liora Huebner <[lhuebner@ucsc.edu](mailto:lhuebner@ucsc.edu)>

**Subject:** Re: Which documents? RE: Survey for times for Hunters Pt technical mtg w/Greenaction

Hi Lily,

I must confess to be getting more and more perplexed by this situation. For two months we've been trying to obtain information on pretty elementary matters about the Hunters Point Bayview (HPBV) cleanup, particularly about how standards for cleanup and waste disposal have been adopted, models chosen, and risk assessment conclusions reached. Two of my students drove to San Francisco to attend a public meeting with agency officials, but could get no answers. We've tried ever since to arrange a conference call with experts from EPA, DTSC, and other agencies to try to get these matters clarified, so far to no avail.

You indicate you are new to the project and fairly unfamiliar with it. But surely you must have technical members of your team involved in the EPA oversight of the cleanup and review and approval of key documents.

They are about fairly fundamental issues, which EPA has approved and which are repeated in current cleanup proposals that EPA presumably is also evaluating.

The Navy sent us one document, similar to others we have been reviewing, including a table of the cleanup standards being employed and their sources. You received a copy as well. Those standards appear to be essentially the same as found in current proposals. Because this is an NPL site, EPA has to review and sign off on these standards and models as consistent with EPA CERCLA guidance. We want to ask questions about how that determination was made.

I enclose a compilation of key pages of a few other documents that we had prepared for the conference call. Again, surely EPA has reviewed these, and is reviewing similar sections in pending documents. We would appreciate being able to ask your subject matter experts who have been involved in this review some fundamental questions. Similarly, DTSC has been reviewing and OK'ing HPBV documents, and we want to be able to ask questions of their subject matter experts.

Please understand, if we are having trouble getting anyone in your agencies to answer fundamental questions about HPBV, imagine how the impacted community must feel.

Please let me know when we can have that call.

Sincerely,

Daniel Hirsch

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From: Daniel O Hirsch [<mailto:dohirsch@ucsc.edu>]  
Sent: Wednesday, February 10, 2016 3:14 PM  
To: LEE, LILY <[LEE.LILY@EPA.GOV](mailto:LEE.LILY@EPA.GOV)>

Cc: [bradley@greenaction.org](mailto:bradley@greenaction.org); Marie Harrison <[marieH@greenaction.org](mailto:marieH@greenaction.org)>

Subject: Re: setting up meeting or conference call with epa, navy, dtsc about shipyard environmental studies

Lily,

Among the technical issues about which we have questions and for which it would be helpful to have your technical people available who can answer questions in those areas are:

1. How the remediation goals for radionuclides were derived.
2. How the risk estimates for specific estimated radiation doses were derived, and how those doses themselves were derived.
3. The standards that have been and are being used to declare materials to be or not be low-level radioactive waste and where these materials have been and are being sent for disposal or recycling.
4. Questions about pre- and post-remediation risk assessments for both chemicals and radionuclides.
5. Numerous questions about status of characterization, environmental impact review, and remediation for different portions of HPBV.
6. Availability of various key documents.

We have some general questions about the above subject areas, but also detailed specific technical questions

**To:** 'Robinson, Derek J CIV NAVFAC HQ, BRAC PMO' <[derek.j.robinson1@navy.mil](mailto:derek.j.robinson1@navy.mil)>; 'Franklin, William D CIV NAVFAC HQ, BRAC PMO' <[william.d.franklin@navy.mil](mailto:william.d.franklin@navy.mil)>; Bacey, Juanita@DTSC <[Juanita.Bacey@dtsc.ca.gov](mailto:Juanita.Bacey@dtsc.ca.gov)>; Lane, Jackie <[Lane.Jackie@epa.gov](mailto:Lane.Jackie@epa.gov)>; 'Daniel Hirsch' <[dohirsch@ucsc.edu](mailto:dohirsch@ucsc.edu)>; [bradley@greenaction.org](mailto:bradley@greenaction.org); Marie Harrison <[marieH@greenaction.org](mailto:marieH@greenaction.org)>

**Subject:** Survey for times for Hunters Pt technical mtg w/Greenaction

Derek asked for morning times to facilitate RASO participation by phone. Tuesdays at 10 am seems to work for Dan and Bradley sometimes. Could you please forward this survey to the people you would like to participate? Please click on the "Participate now" blue button below to pick the times that work best for you. Dan Hirsch, UC Santa Cruz, who is serving as technical advisor to Greenaction, has said, "To assist in the conversation, we intend to send to you in advance, for forwarding to the other participants, a few selected pages from key documents."

I can get a room at USEPA for any local participants and set up a conference call line for any remote participants. Thank you for your participation.

- Lily

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Hi there,

Lily Lee ([lee.lily@epa.gov](mailto:lee.lily@epa.gov)) invites you to participate in the Doodle poll "Hunters Pt Mtg w/Greenaction."

**Participate now**



What is Doodle? Doodle is a web service that helps Lily Lee to find a suitable date for meeting with a group of people. [Learn more about how Doodle works.](#)

You have received this e-mail because "Lily Lee" has invited you to participate in the Doodle poll "Hunters Pt Mtg w/Greenaction."

Doodle is also available for iOS and Android.



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